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> Title: JP11512337T2:

PDerwent Title: Self-cleaning photocatalytic coating - of crystalline titanium oxide for glass,

ceramic or glass-ceramic substrate [Derwent Record]

JP Japan © Country:

> **Kind:** T2 Publ. unexam. Pat. Appl. based on Internat. Appl. i

see Assignee

Assignee: None

Published / Filed: **1999-10-26** / 1996-09-13

> Application Number:

JP1996000511722

Advanced: C03C 17/00; C03C 17/25; C03C 17/34; C04B 41/45; C04B 41/52;

C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335; G02F 1/153;

G02F 1/157;

Core: G02F 1/01; more...

IPC-7: **B01J 35/02**; C03C 17/00; C09D 5/00; C09D 7/12;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2; C03C17/34D4D; FECLA Code:

C04B41/45B30; C04B41/52; C04B41/81; C04B41/89; G02F1/1333;

1996-09-13 WO1996FR0001421 Priority Number:

1995-09-15 FR1995000010839

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Legal Status:

AL AM AP AZ BB BG BY CA CN EE GE HU IL IS JP KE KG KP KR KZ LK

LR LS LT BE CH FI GB IE IT LI Country:

<u>Publication</u>	Pub. Date	Filed	Title
WO9710186A1	1997-03-20	1996-09-13	PHOTOCATALYTIC COATING SUB
US20040216487A1	2004-11-04	2004-06-01	Substrate with a photocatalytic coatir
US20030207028A1	2003-11-06	2003-04-22	Substrate with a photocatalytic coatir
US20020169204A1	2002-11-14	2002-06-26	Use of triaqua-mu3-oxohekakis-mu- propionatotrichromium(1+), [Cr3O (O2CCH2CH3)6(H2O)3]+, as a nutrit supplement or in treatment of medica
US20020150681A1	2002-10-17	2002-04-05	Substrate with a photocatalytic coatir
US20020136934A1	2002-09-26	2002-02-22	Substrate with a photocatalytic coatir
US20020119307A1	2002-08-29	2002-02-22	Substrate with a photocatalytic coatir
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	WO9710186A1 US20040216487A1 US20030207028A1 US20020169204A1 US20020150681A1 US20020136934A1 US20020119307A1	WO9710186A1 1997-03-20 US20040216487A1 2004-11-04 US20030207028A1 2003-11-06 US20020169204A1 2002-11-14 US20020150681A1 2002-10-17 US20020136934A1 2002-09-26 US20020119307A1 2002-08-29	WO9710186A1 1997-03-20 1996-09-13

(JP11512337T2) Page 2 of 3

Æ	US20020071956A1	2002-06-13	2001-12-04	Substrate with a photocatalytic coating	
A	US20020028361A1	2002-03-07	2001-08-08	Substrate with a photocatalytic coatir	
園	US6846556	2005-01-25	2002-04-05	Substrate with a photocatalytic coatir	
Æ	US6680135	2004-01-20	2002-02-22	Substrate with a photocatalytic coatir	
	US6326079B1	2001-12-04			
决	US6326079	2001-12-04	2000-07-13	Substrate with a photocatalytic coatir	
Z	US6103363	2000-08-15	1998-05-28	Substrate with a photocatalytic coatir	
Ø	TR9800459T1	1998-06-22	1996-09-13	Fotokatalitik kaplamali taban katman	
团	PT1132351T	2005-05-31	1996-09-13	SUBSTATO DE REVESTIMENTO FO CATALITICO	
Ø	PT0850204T	2002-05-31	1996-09-13	SUBSTRATO PARA REVESTIMENT CATALITICO	
図	PL0325527A1	1998-08-03	1996-09-13	PHOTOCATALYTIC COATING CAR SUBSTRATE	
Ø	JP2006247652A2	2006-09-21	2006-03-22		
Ø	JP2005225758A2	2005-08-25	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING	
図	JP2005213142A2	2005-08-11	2005-03-14	SUBSTRATE PROVIDED WITH PHOTOCATALYST COATING	
Ø	JP2005205411A2	2005-08-04	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING	
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Ø	FR2738813B1	1997-10-17	1995-09-15	SUBSTRAT A REVETEMENT PHOT CATALYTIQUE	
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Ø	ES2236066T3	2005-07-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.	
Ø	ES2168506T3	2002-06-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.	
丛	EP1518836A3	2006-05-17	1996-09-13	Substrate with photocatalytic coating	
图	EP1518836A2	2005-03-30	1996-09-13	Substrate with photocatalytic coating	
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図	DK0850204T3	2002-04-02	1996-09-13	Substrat med fotokatalytisk overtræk	
図	DE69634178T2		1996-09-13	Substrat mit photokatalytischer Besc	
	DE69634178C0	2005-02-17	1996-09-13	Substrat mit photokatalytischer Besc	
凶	DE69617705T2	2002-08-08	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG	
	DE69617705C0	2002-01-17	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG	
Ø	DE29624395U1		1996-09-13	Substrat mit photokalytischer Beschi	
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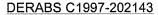
	Ø	CZ9800784A3	1998-08-12		SUBSTRATE WITH PHOTOCATALY COATING, PROCESS OF ITS PREF AND USE		
	Ø	BR9610604A	1999-02-17		Substrato à base de vidro de cerâmic vidro-cerâmica vidraça "anti-sujeiras turvação" monolítica múltipla aplicaça substrato e processo de obtenção de		
	Ø	AU7087596A1	1997-04-01	1996-09-13	Photocatalytic coating substrate		
	Ø	AT0286858E	2005-01-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG		
	Ø	AT0210097E	2001-12-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG		
ſ	47 family members shown above						

Forward References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
A	US7049002	2006-05-23	Greenberg; Charles B.	Industries	Photocatalytically-activate cleaning article and meth making same
	US6722159	2004-04-20	Greenberg; Charles B.		Photocatalytically-activate cleaning article and meth making same

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> Title: WO9710186A1: PHOTOCATALYTIC COATING SUBSTRATE[French]

Self-cleaning photocatalytic coating - of crystalline titanium oxide for Derwent Title:

glass, ceramic or glass-ceramic substrate [Derwent Record]

WO World Intellectual Property Organization (WIPO) Country:

A1 Publ.of the Int.Appl. with Int.search report

BOIRE, Philippe; 77, rue de Cambronne, F-75015 Paris, France

TALPAERT, Xavier; 184, rue de Belleville, F-75020 Paris, France

SAINT-GOBAIN VITRAGE, 18, avenue d'Alsace, F-92400 Assignee:

Courbevoie, France

♣Corporate Tree data: Compagnie de Saint-Gobain (STGOBAIN);

News, Profiles, Stocks and More about this company

1997-03-20 / 1996-09-13 Published / Filed:

> Application Number:

WO1996FR0001421

Advanced: C03C 17/00; C03C 17/25; C03C 17/34; C04B 41/45;

C04B 41/52; C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335;

G02F 1/153; G02F 1/157; Core: G02F 1/01; more...

IPC-7: C03C 8/20; C03C 17/00; C03C 17/34;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2;

C03C17/34D4D; C04B41/45B30; C04B41/52; C04B41/81;

C04B41/89; G02F1/1333;

Priority Number: 1995-09-15 FR1995000010839

> The invention relates to a glass-, ceramic- or vitro-ceramic-based Abstract:

substrate (1) having on at least a portion of at least one of its sides a coating (3) with photocatalytic characteristics comprising titanium

oxyde which is at least partially crystallized. It also relates to

applications of such substrates and its production

process.\$L'invention a pour objet un substrat (1) à base verrière, céramique ou vitro-céramique, muni sur au moins une partie d'au

moins une de ses faces d'un revêtement (3) a propriété photocatalytique comportant de l'oxyde de titane au moins partiellement cristallisé. Elle concerne également les applications

d'un tel substrat et son mode d'obtention. [French]

Representative

Image:

RENOUS-CHAN, Véronique; SAttorney, Agent

or Firm:

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AL AU BB BG BR CA CN CZ EE GE HU IL IS JP KE KP KR LK LR LS LT LV MG MK MN MW MX NO NZ PL RO SD SG SI SK TR TT UA UG US VN, European patent: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE, OAPI patent: BF BJ CF CG CI CM GA GN ML MR NE SN TD TG, ARIPO patent: KE LS MW SD SZ UG, Eurasian patent: AM AZ BY KG KZ MD RU TJ TM

PDF	Publication	Pub. Date	Filed	Title
图	WO9710186A1	1997-03-20	1996-09-13	PHOTOCATALYTIC COATING SUB
Z	US20040216487A1	2004-11-04	2004-06-01	Substrate with a photocatalytic coatir
图	US20030207028A1	2003-11-06	2003-04-22	Substrate with a photocatalytic coatir
æ	US20020169204A1	2002-11-14	2002-06-26	Use of triaqua-mu3-oxohekakis-mu- propionatotrichromium(1+), [Cr3O (O2CCH2CH3)6(H2O)3]+, as a nutrit supplement or in treatment of medica
A	US20020150681A1	2002-10-17	2002-04-05	Substrate with a photocatalytic coatir
Æ	US20020136934A1	2002-09-26	2002-02-22	Substrate with a photocatalytic coatir
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图	US20020071956A1	2002-06-13	2001-12-04	Substrate with a photocatalytic coatir
囚	US20020028361A1	2002-03-07	2001-08-08	Substrate with a photocatalytic coatir
A	<u>US6846556</u>	2005-01-25	2002-04-05	Substrate with a photocatalytic coatir
A	US6680135	2004-01-20	2002-02-22	Substrate with a photocatalytic coatir
	US6326079B1	2001-12-04		
图	<u>US6326079</u>	2001-12-04	2000-07-13	Substrate with a photocatalytic coatir
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Ø	TR9800459T1	1998-06-22	1996-09-13	Fotokatalitik kaplamali taban katmani
Ø	PT1132351T	2005-05-31	1996-09-13	SUBSTATO DE REVESTIMENTO FO CATALITICO
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Ø	JP2005225758A2	2005-08-25	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
図	JP2005213142A2	2005-08-11	2005-03-14	SUBSTRATE PROVIDED WITH PHOTOCATALYST COATING
図	JP2005205411A2	2005-08-04	2005-03-14	SUBSTRATE WITH PHOTOCATALY COATING
Ø	JP2005199275A2	2005-07-28	2005-03-14	BASE MATERIAL HAVING PHOTO(COATING
M	JP11512337T2	1999-10-26	1996-09-13	
回	FR2738813B1	1997-10-17	1995-09-15	SUBSTRAT A REVETEMENT PHOT CATALYTIQUE
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Ø	ES2236066T3	2005-07-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.			
Ø	ES2168506T3	2002-06-16	1996-09-13	SUSTRATO CON REVESTIMIENTO FOTOCATALITICO.			
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人	EP0850204B1	2001-12-05	1996-09-13	PHOTOCATALYTIC COATING SUB			
と	EP0850204A1	1998-07-01	1996-09-13	PHOTOCATALYTIC COATING SUB			
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Ø	DE69634178T2	2006-01-05	1996-09-13	Substrat mit photokatalytischer Bescl			
	DE69634178C0	2005-02-17	1996-09-13	Substrat mit photokatalytischer Bescl			
Ø	DE69617705T2	2002-08-08	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
	DE69617705C0	2002-01-17	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
図	DE29624395U1	2003-02-20	1996-09-13	Substrat mit photokalytischer Beschid			
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Ø	CZ9800784A3	1998-08-12	1996-09-13	SUBSTRATE WITH PHOTOCATALY COATING, PROCESS OF ITS PREF AND USE			
Ø	BR9610604A	1999-02-17	1996-09-13	Substrato à base de vidro de cerâmic vidro-cerâmica vidraça "anti-sujeiras turvação" monolítica múltipla aplicaça substrato e processo de obtenção de			
Ø	AU7087596A1	1997-04-01	1996-09-13	Photocatalytic coating substrate			
Ø	AT0286858E	2005-01-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
Ø	AT0210097E	2001-12-15	1996-09-13	SUBSTRAT MIT PHOTOKATALYTIS BESCHICHTUNG			
47	47 family members shown above						

First Claim:
Show all claims

REVENDICATIONS 1 . Substrat (1) à base verrière, céramique ou vitro- céramique, muni sur au moins une partie d'au moins une de ses faces d'un revêtement (3) à propriété photo-catalytique comportant de l'oxyde de titane au moins partiellement cristallisé.

Description
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± SUBSTRAT A REVETEMENT PHOTOCATALYTIQUE 5 L'invention concerne des substrats à base verrière, céramique ou vitro- céramique, plus particulièrement en verre, notamment transparents, que l'on munit de revêtements à propriétés photo-catalytiques, en vue de fabriquer des vitrages d'applications diverses, comme les vitrages utilitaires, vitrages pour véhicules ou pour bâtiments.

De plus en plus, on cherche à fonctionnaliser les vitrages en déposant à leur surface des couches minces destinées à leur conférer une propriété particulière selon l'application visée. Ainsi, il existe des couches à fonction optique, comme les couches dites anti-reflet composées d'un empilement de couches alternativement à haut et bas indices de réfraction. Pour une fonction anti-statique, ou chauffante du type anti-givre, on peut aussi prévoir des couches

minces conductrices électriquement, par exemple à base de métal ou d'oxyde métallique dopé. Pour une fonction thermique, de basémissivité ou anti-solaire par exemple, on peut se tourner vers des couches minces en métal du type argent ou à base de nitrure ou d'oxyde métallique. Pour obtenir un effet « anti-pluie », peuvent être prévues des couches à caractère hydrophobe, par exemple à base d'organo-silane fluoré Cependant, il existe encore un besoin pour un substrat, notamment un vitrage que l'on pourrait qualifier « d'anti-salissures », c'est-à-dire visant la permanence dans le temps des propriétés d'aspect et de surface, et permettant notamment d'espacer les nettoyages etiou d'améliorer la visibilité, en parvenant à éliminer au fur et à mesure les salissures se déposant progressivement à la surface du substrat, notamment les salissures d'origine organique comme les traces de doigts ou des produits organiques volatils présents dans l'atmosphère, ou même des salissures du type buée.

Forward References:

Go to Result Set: Forward references (19)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
A	<u>US7049002</u>	2006-05-23	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same
Ø	DE10158433B4	2006-05-18	Sepeur, Stefan, Dr.	NANO-X GmbH	Beschichtung
2	<u>US6939611</u>	2005-09-06	Fujishima; Akira	Kanagawa Academy of Science and Technology	Window glass emplo titanium dioxide phot
ß	US6875319	2005-04-05	Nadaud; Nicolas	Saint-Gobain Glass France	Substrate with photo coating
B	<u>US6846556</u>	2005-01-25	Boire; Philippe	Saint-Gobain Glass France	Substrate with a pho coating
B	<u>US6840061</u>	2005-01-11	Hurst; Simon James	Libbey-Owens- Ford Co.	Coatings on substrat
	<u>US6824826</u>	2004-11-30	Amadelli; Rossano	Italcementi S.p.A.	Use of photocatalytic preparations of colloidioxide for preserving original appearance cementitious, stone, products
A	<u>US6733889</u>	2004-05-11	Varanasi; Srikanth K.	Pilkington North America, Inc.	Reflective, solar cong glass article
因	<u>US6720066</u>	2004-04-13	Talpaert; Xavier	Saint-Gobain Glass France	Substrate with a pho coating
Æ	<u>US6680135</u>	2004-01-20	Boire; Philippe	Saint-Gobain Glass France	Substrate with a pho coating
凶	DE10158433A1	2003-06-12	Sepeur, Stefan, Dr.	NANO-X GmbH	Beschichtung
A	<u>US6465088</u>	2002-10-15	Talpaert; Xavier	Saint-Gobain Glass France	Substrate with a pho coating
Ø	<u>US6413581</u>	2002-07-02	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same

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囚	<u>US6312131</u>	2001-11-06	Yamamoto; Toru	Nippon Sheet Glass Co., Ltd.	Hydrophilic mirror an of producing the san
A	US6312831	2001-11-06	Crawley; Richard Lee	Visteon Global Technologies, Inc.	Highly reflective, dur titanium/tin oxide film
A	US6238738	2001-05-29	McCurdy; Richard J.	Libbey-Owens- Ford Co.	Method for depositin oxide coatings on fla
j.	US6054227	2000-04-25	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning appliances
Z	<u>US6027766</u>	2000-02-22	Greenberg; Charles B.	PPG Industries Ohio, Inc.	Photocatalytically-ac cleaning article and i making same

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